

Homework 4

name: Zichen Pan

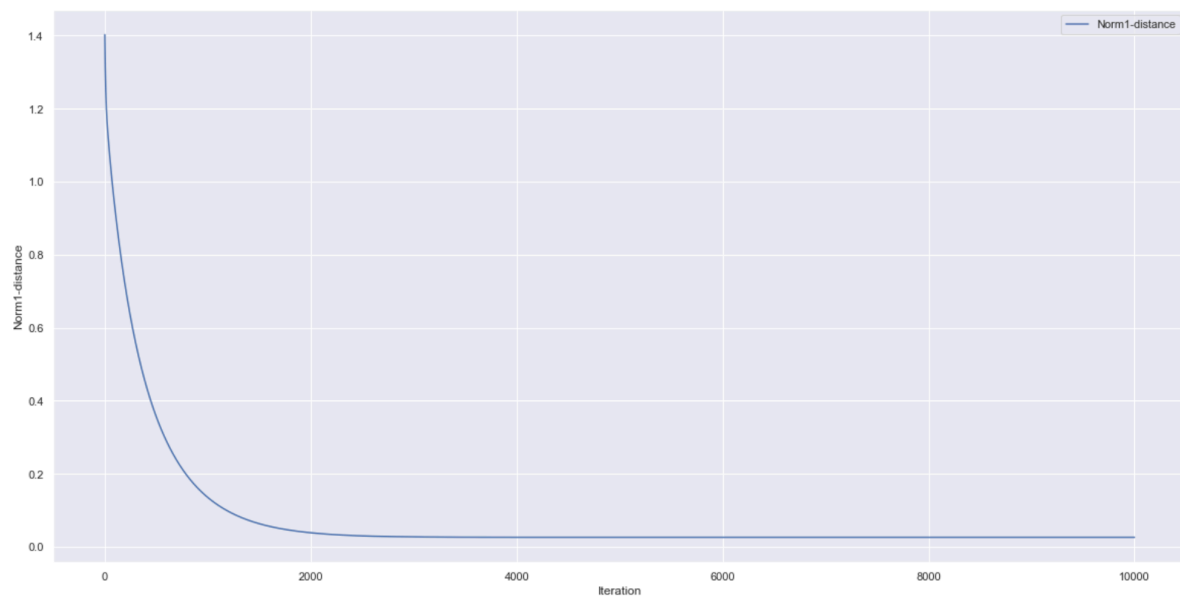
UNI: zp2197

Problem 1

(a)

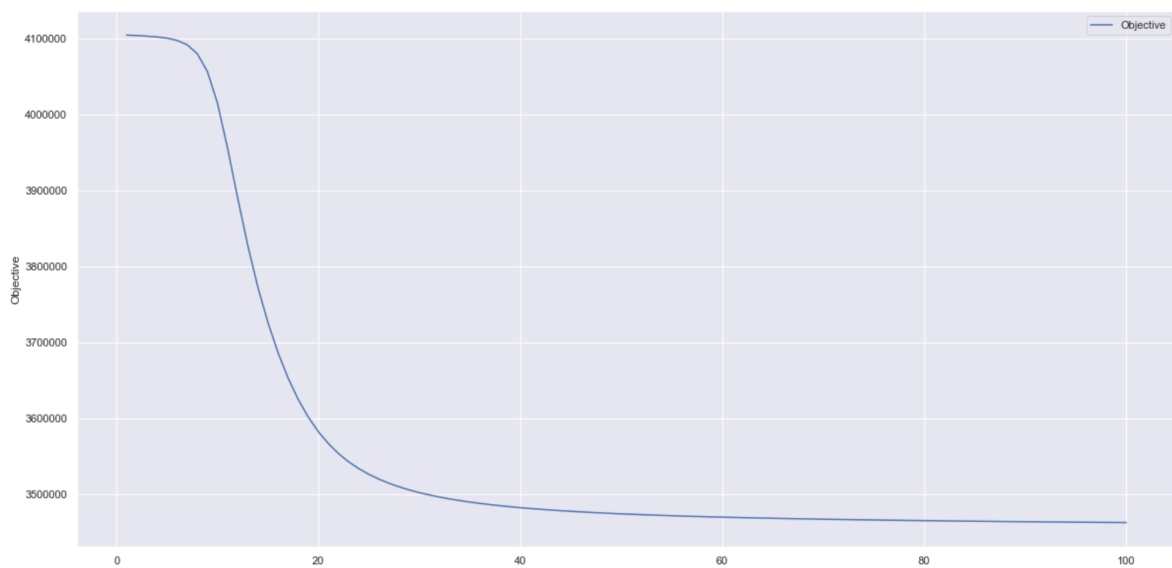
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0	Mary Hardin-Baylor	0.017639798654528322	Mary Hardin-Baylor	0.06084733790627028	Clemson	0.09737623073336274	Clemson	0.10388204469882503
1	Clemson	0.014032441637353173	Clemson	0.048802595798256534	Alabama	0.053666225514063706	Alabama	0.0572230675145033
2	Mount Union	0.012248981016145988	Alabama	0.027211276643123075	Georgia	0.023190572765959032	Georgia	0.024715660707430375
3	Morningside	0.011157063857289026	Mount Union	0.021395762698260042	Ohio State	0.022592308391066147	Ohio State	0.02405528557407886
4	North Dakota St	0.010944365819628456	St John's MN	0.014651160971966243	Notre Dame	0.022336695739034535	Notre Dame	0.023797410121030826
5	Valdosta St	0.010342902815416123	Morningside	0.013446393342868639	Oklahoma	0.01911324531760728	Oklahoma	0.020351875293171784
6	St John's MN	0.009911909116771318	Valdosta St	0.012792027097969111	Texas A&M	0.016574875847361864	Texas A&M	0.017669361605791477
7	Alabama	0.009898174746709568	North Dakota St	0.012501615196745853	LSU	0.015151626340862884	LSU	0.016144325324043834
8	UW-Whitewater	0.009682759468654595	Georgia	0.01187677413408951	Florida	0.015051145870663014	Florida	0.016035701568438848
9	Ferris St	0.009671185502235715	Ohio State	0.011871182314592115	North Dakota St	0.014735609657188975	North Dakota St	0.015301920890875913
10	Johns Hopkins	0.009448335744716391	Notre Dame	0.011582831142212547	Kentucky	0.014335475698743865	Kentucky	0.015276328923616562
11	Brockport St	0.006858614514892717	UW-Whitewater	0.01148113937346632	Texas	0.013913550737452067	Texas	0.01481665783261277
12	Princeton	0.00681131042361692	Ferris St	0.011187132520245505	Michigan	0.01378199007696958	Michigan	0.014678833415603632
13	Minn St-Mankato	0.006734949268700698	Oklahoma	0.010029146645479738	Syracuse	0.013223378404808563	Syracuse	0.014091358071000325
14	Benedictine KS	0.006550519558662781	Johns Hopkins	0.009890343475655585	Central Florida	0.012440910855725313	Central Florida	0.013244348718820102
15	Kansas Wesleyan	0.005917028936663904	Texas A&M	0.008445909256987582	Mary Hardin-Baylor	0.01188443833649618	Washington	0.012022265442175894
16	Ohio State	0.0058441546927107705	LSU	0.007799736645867695	Washington	0.011316887690949965	Washington St	0.011907772583628498
17	Marian IN	0.005659183443190517	Florida	0.007781991712585718	Washington St	0.011222327877578212	Penn State	0.010773021766217066
18	Bethel MN	0.005654955614924589	Kentucky	0.007376338661966822	Penn State	0.010118464424667675	Auburn	0.010624306433950879
19	Muhlenberg	0.0055395687370953265	Texas	0.007277594380094606	Auburn	0.00997655893197494	Missouri	0.010358632953833817
20	Tarleton St	0.005476268071983852	Michigan	0.007192811085786144	Missouri	0.009721857956462932	Iowa	0.01025920155927499
21	Ouachita Baptist	0.005417983561774517	Syracuse	0.006816281485482184	Iowa	0.009647621732328611	Northwestern	0.009783840168456147
22	Georgia	0.005409007367184307	Central Florida	0.006537513141412551	Northwestern	0.009192264888459829	West Virginia	0.009763893808230424
23	Notre Dame	0.005299447683292239	Washington St	0.0063803646688843675	West Virginia	0.009174209916387037	Fresno St	0.009452107919709962
24	Notre Dame OH	0.005248646935339546	Washington	0.0062689999401099004	Fresno St	0.008900919455990374	South Carolina	0.008896472297894926

(b)



Problem 2

(a)



(b)

<table><tr><td>name</td><td>weight</td></tr><tr><td>american</td><td>0.01875578319518201</td></tr><tr><td>war</td><td>0.018533036560898736</td></tr><tr><td>states</td><td>0.01767525567869315</td></tr><tr><td>military</td><td>0.016430384112137247</td></tr><tr><td>force</td><td>0.011762109294462213</td></tr><tr><td>country</td><td>0.01139001533944999</td></tr><tr><td>attack</td><td>0.011196285154733955</td></tr><tr><td>government</td><td>0.01084630989328639</td></tr><tr><td>official</td><td>0.009761466335914515</td></tr><tr><td>international</td><td>0.008781336915389522</td></tr></table>	name	weight	american	0.01875578319518201	war	0.018533036560898736	states	0.01767525567869315	military	0.016430384112137247	force	0.011762109294462213	country	0.01139001533944999	attack	0.011196285154733955	government	0.01084630989328639	official	0.009761466335914515	international	0.008781336915389522	<table><tr><td>name</td><td>weight</td></tr><tr><td>water</td><td>0.026645084653285404</td></tr><tr><td>pound</td><td>0.01329564985328418</td></tr><tr><td>heat</td><td>0.010217763907917453</td></tr><tr><td>oil</td><td>0.009429851200891291</td></tr><tr><td>add</td><td>0.008992886314157166</td></tr><tr><td>inch</td><td>0.008914651440800943</td></tr><tr><td>plant</td><td>0.008895494718428425</td></tr><tr><td>minute</td><td>0.008677238580684327</td></tr><tr><td>dry</td><td>0.008628872004488687</td></tr><tr><td>cut</td><td>0.0084231313602071839</td></tr></table>	name	weight	water	0.026645084653285404	pound	0.01329564985328418	heat	0.010217763907917453	oil	0.009429851200891291	add	0.008992886314157166	inch	0.008914651440800943	plant	0.008895494718428425	minute	0.008677238580684327	dry	0.008628872004488687	cut	0.0084231313602071839	<table><tr><td>name</td><td>weight</td></tr><tr><td>percent</td><td>0.025202186698369787</td></tr><tr><td>increase</td><td>0.01876707637404489</td></tr><tr><td>cost</td><td>0.013494336764283936</td></tr><tr><td>rate</td><td>0.010230491826783492</td></tr><tr><td>economy</td><td>0.009801166925575968</td></tr><tr><td>economic</td><td>0.009672092056115397</td></tr><tr><td>rise</td><td>0.009186588310786593</td></tr><tr><td>low</td><td>0.008543036900941952</td></tr><tr><td>growth</td><td>0.0082626000666902</td></tr><tr><td>number</td><td>0.00815223094831459</td></tr></table>	name	weight	percent	0.025202186698369787	increase	0.01876707637404489	cost	0.013494336764283936	rate	0.010230491826783492	economy	0.009801166925575968	economic	0.009672092056115397	rise	0.009186588310786593	low	0.008543036900941952	growth	0.0082626000666902	number	0.00815223094831459	<table><tr><td>name</td><td>weight</td></tr><tr><td>building</td><td>0.023379842753433026</td></tr><tr><td>city</td><td>0.021816872844874248</td></tr><tr><td>area</td><td>0.015154602452550096</td></tr><tr><td>build</td><td>0.0150838345370662</td></tr><tr><td>resident</td><td>0.014207408882025697</td></tr><tr><td>house</td><td>0.011401348533087342</td></tr><tr><td>project</td><td>0.01121270269264198</td></tr><tr><td>site</td><td>0.009271089180133972</td></tr><tr><td>construction</td><td>0.009130547664433164</td></tr><tr><td>community</td><td>0.008494972846245107</td></tr></table>	name	weight	building	0.023379842753433026	city	0.021816872844874248	area	0.015154602452550096	build	0.0150838345370662	resident	0.014207408882025697	house	0.011401348533087342	project	0.01121270269264198	site	0.009271089180133972	construction	0.009130547664433164	community	0.008494972846245107	<table><tr><td>name</td><td>weight</td></tr><tr><td>school</td><td>0.04647564269493835</td></tr><tr><td>student</td><td>0.030863451675244104</td></tr><tr><td>program</td><td>0.01640693184995472</td></tr><tr><td>class</td><td>0.016258303134786836</td></tr><tr><td>child</td><td>0.014873364042724034</td></tr><tr><td>college</td><td>0.014437570043700616</td></tr><tr><td>education</td><td>0.013990195576492335</td></tr><tr><td>teacher</td><td>0.012038027440706629</td></tr><tr><td>community</td><td>0.0112297833468927</td></tr><tr><td>parent</td><td>0.010135967972538565</td></tr></table>	name	weight	school	0.04647564269493835	student	0.030863451675244104	program	0.01640693184995472	class	0.016258303134786836	child	0.014873364042724034	college	0.014437570043700616	education	0.013990195576492335	teacher	0.012038027440706629	community	0.0112297833468927	parent	0.010135967972538565
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